

# Ying Ren

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

95  
papers

1,056  
citations

18  
h-index

29  
g-index

99  
ext. papers

1,388  
ext. citations

2.2  
avg, IF

5.12  
L-index

#	Paper	IF	Citations
95	The Effect of Aluminum Addition on the Evolution of Inclusions in an Aluminum-Killed Calcium-Treated Steel. <i>Metals</i> , <b>2022</b> , 12, 181	2.3	1
94	Special issue on continuous casting. <i>Journal of Iron and Steel Research International</i> , <b>2022</b> , 29, 1	1.2	
93	Effect of Slag Basicity on Non-metallic Inclusions in a Heavy Rail Steel. <i>Minerals, Metals and Materials Series</i> , <b>2022</b> , 513-520	0.3	
92	Composition evolution and deformation of different non-metallic inclusions in a bearing steel during hot rolling. <i>Journal of Iron and Steel Research International</i> , <b>2022</b> , 29, 552-562	1.2	1
91	Solid reactions between CaO-Al <sub>2</sub> O <sub>3</sub> and Si-Mn-containing steel at 1273 K. <i>Journal of Materials Research and Technology</i> , <b>2022</b> , 18, 159-170	5.5	0
90	Prediction on the three-dimensional spatial distribution of the number density of inclusions on the entire cross section of a steel continuous casting slab. <i>International Journal of Heat and Mass Transfer</i> , <b>2022</b> , 190, 122789	4.9	0
89	Effect of Thermal History on the Deformation of Non-metallic Inclusions During Plain Strain Compression. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2021</b> , 52, 1200-1206	2.5	2
88	Prediction of Spatial Composition Distribution of Inclusions in the Continuous Casting Bloom of a Bearing Steel under Unsteady Casting. <i>ISIJ International</i> , <b>2021</b> , 61, 824-833	1.7	3
87	Determination of Transient Flow Pattern in Steel Continuous Casting Molds Using Nail Board Measurement and Onsite Top Flux Observation. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2021</b> , 52, 1106-1117	2.5	1
86	Kinetic Prediction for the Composition of Inclusions in the Molten Steel During the Electroslag Remelting. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2021</b> , 52, 1521-1531	2.5	8
85	Clogging Behavior of a Submerged Entry Nozzle for the Casting of Ca-Treated Al-Killed Ti-Bearing Steel. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2021</b> , 52, 1186-1193	2.5	3
84	Effect of Al on the Solid Reaction between 3CaO-Al <sub>2</sub> O <sub>3</sub> Oxide and Fe <sub>3</sub> SiAl Alloy at 1373 K. <i>Steel Research International</i> , <b>2021</b> , 92, 2100049	1.6	1
83	Effect of Temperature and Multichannel Stopper Rod on Bubbles in Water Model of a Steel Continuous Caster. <i>Steel Research International</i> , <b>2021</b> , 92, 2100067	1.6	3
82	Dependency of Flow Pattern in the Mold on the Distribution of Inclusions Along the Thickness of Continuous Casting Slabs. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2021</b> , 52, 2536	2.5	1
81	Effect of Yttrium Content on the Transformation of Inclusions in a Si-Mn-Killed Stainless Steel. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2021</b> , 52, 2659-2675	2.5	2
80	Three-Dimensional Macrosegregation Model of Bloom in Curved Continuous Casting Process. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2021</b> , 52, 2796-2805	2.5	4
79	In Situ Observation of the Dissolution of Al <sub>2</sub> O <sub>3</sub> Particles in CaO-Al <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> Slags. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2021</b> , 52, 3288-3301	2.5	4

78	Evolution of Nonmetallic Inclusions with Varied Argon Stirring Condition during Vacuum Degassing Refining of a Bearing Steel. <i>Steel Research International</i> , <b>2021</b> , 92, 2000364	1.6	2
77	Prediction of spatial distribution of the composition of inclusions on the entire cross section of a linepipe steel continuous casting slab. <i>Journal of Materials Science and Technology</i> , <b>2021</b> , 61, 147-158	9.1	10
76	Evolution of Sulfides in Nonoriented Silicon Steels during Heating Process. <i>Steel Research International</i> , <b>2021</b> , 92, 2000489	1.6	1
75	Effect of Slag Modification on Inclusions in SiMn-Killed 304 Stainless Steels. <i>Steel Research International</i> , <b>2021</b> , 92, 2000506	1.6	3
74	Effect of Total Calcium in Heavy Rail Steels on the Transformation of Inclusions during Heat Treatment at 1473 K. <i>Steel Research International</i> , <b>2021</b> , 92, 2000605	1.6	3
73	Evolution of Nonmetallic Inclusions during the Electroslag Remelting Process. <i>Steel Research International</i> , <b>2021</b> , 92, 2000629	1.6	3
72	Effect of Compression Reduction on Deformation of CaO-CaS-Al <sub>2</sub> O <sub>3</sub> -MgO Inclusions in Solid and Semi-Solid Steel. <i>Steel Research International</i> , <b>2021</b> , 92, 2000609	1.6	0
71	Effect of Mold Electromagnetic Stirring and Final Electromagnetic Stirring on the Solidification Structure and Macrosegregation in Bloom Continuous Casting. <i>Steel Research International</i> , <b>2021</b> , 92, 2000661	1.6	6
70	Formation and Control of Transverse Corner Cracks in the Continuous Casting Slab of a Microalloyed Steel. <i>Steel Research International</i> , <b>2021</b> , 92, 2000649	1.6	6
69	Three-Dimensional Spatial Distribution of Non-metallic Inclusions on the Entire Cross Section of a Steel Continuous Casting Slab. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2021</b> , 52, 3497-3514	2.5	3
68	Dynamic mass variation and multiphase interaction among steel, slag, lining refractory and nonmetallic inclusions: Laboratory experiments and mathematical prediction. <i>International Journal of Minerals, Metallurgy and Materials</i> , <b>2021</b> , 28, 1298-1308	3.1	4
67	Dissolution Behavior of Mg and Ca from Dolomite Refractory into Al-killed Molten Steel. <i>ISIJ International</i> , <b>2021</b> , 61, 2391-2399	1.7	2
66	Mathematical simulation of two-phase flow and slag entrainment during steel bloom continuous casting. <i>Powder Technology</i> , <b>2021</b> , 390, 539-554	5.2	2
65	Prediction on the spatial distribution of the composition of inclusions in a heavy rail steel continuous casting bloom. <i>Journal of Materials Research and Technology</i> , <b>2020</b> , 9, 5648-5665	5.5	7
64	Modelling of non-metallic inclusions in steel. <i>Mineral Processing and Extractive Metallurgy: Transactions of the Institute of Mining and Metallurgy</i> , <b>2020</b> , 129, 184-206	0.8	2
63	Effect of cerium on the wettability between 304 stainless steel and MgO-Al <sub>2</sub> O <sub>3</sub> -based lining refractory. <i>Ceramics International</i> , <b>2020</b> , 46, 15674-15685	5.1	4
62	Wettability and interfacial behavior between cerium containing stainless steel and MgO-Cr <sub>2</sub> O <sub>3</sub> -based lining refractory. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 845, 155877	5.7	2
61	Characterization and evolution of non-metallic inclusions in GCr15 bearing steels during cooling and solidification. <i>Ironmaking and Steelmaking</i> , <b>2020</b> , 47, 1217-1225	1.3	7

60	Effect of calcium treatment on inclusions in Si-Mn-killed 304 stainless steels. <i>Journal of Materials Research and Technology</i> , <b>2020</b> , 9, 11351-11360	5.5	2
59	Modification of inclusions in linepipe steels by Ca-containing ferrosilicon during ladle refining. <i>Ironmaking and Steelmaking</i> , <b>2020</b> , 47, 6-12	1.3	4
58	Modification of inclusions by Al and Ca in ferrosilicon during alloying process of 18Cr8Ni stainless steels. <i>Ironmaking and Steelmaking</i> , <b>2020</b> , 47, 40-46	1.3	6
57	Wettability between 304 stainless steel and refractory materials. <i>Journal of Materials Research and Technology</i> , <b>2020</b> , 9, 5784-5793	5.5	2
56	Transformation of Inclusions in Linepipe Steels During Heat Treatment. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2019</b> , 50, 2047-2062	2.5	33
55	Mathematical Modeling on the Influence of Casting Parameters on Initial Solidification at the Meniscus of Slab Continuous Casting. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2019</b> , 50, 1444-1460	2.5	8
54	Effect of Selenium on the Interaction Between Refractory and Steel. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2019</b> , 50, 1115-1123	2.5	3
53	Large Eddy Simulation on the Two-Phase Flow in a Water Model of Continuous Casting Strand with Gas Injection. <i>Steel Research International</i> , <b>2019</b> , 90, 1800287	1.6	15
52	Fluid Flow, Thermal Stratification, and Inclusion Motion During Holding Period in Steel Ladles. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2019</b> , 50, 1476-1489	2.5	10
51	Effect of $Al_2O_3 \cdot Bi_2O_3 \cdot MnO$ inclusions on precipitation of MnS in Si-Mn-killed 304 stainless steels. <i>Ironmaking and Steelmaking</i> , <b>2019</b> , 46, 558-563	1.3	6
50	Investigation on Fluid Flow inside a Continuous Slab Casting Mold Using Particle Image Velocimetry. <i>Steel Research International</i> , <b>2019</b> , 90, 1900209	1.6	4
49	Thermodynamic and Kinetic Analysis for Transformation of Oxide Inclusions in Solid 304 Stainless Steels. <i>Steel Research International</i> , <b>2019</b> , 90, 1800600	1.6	15
48	Initial agglomeration of non-wetted solid particles in high temperature melt. <i>Chemical Engineering Science</i> , <b>2019</b> , 196, 14-24	4.4	8
47	Agglomeration of Solid Inclusions in Molten Steel. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2019</b> , 50, 36-41	2.5	10
46	Numerical Simulation of Steel and Argon Gas Two-Phase Flow in Continuous Casting Using LES + VOF + DPM Model. <i>Jom</i> , <b>2019</b> , 71, 1158-1168	2.1	25
45	Fluid Flow and Inclusion Behavior Around Spherical-Cap Bubbles. <i>Jom</i> , <b>2019</b> , 71, 69-77	2.1	8
44	Inclusion Capture Probability Prediction Model for Bubble Floatation in Turbulent Steel Flow. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2019</b> , 50, 16-21	2.5	9
43	Distribution of TiN inclusions in Ti-stabilized ultra-pure ferrite stainless steel slab. <i>Journal of Iron and Steel Research International</i> , <b>2019</b> , 26, 962-972	1.2	5

42	Mathematical Modeling of Initial Solidification and Slag Infiltration at the Meniscus of Slab Continuous Casting Mold. <i>Jom</i> , <b>2019</b> , 71, 78-87	2.1	10
41	Precipitation of nitrides in non-oriented silicon steel. <i>Ironmaking and Steelmaking</i> , <b>2019</b> , 46, 359-367	1.3	4
40	Effect of Sulfur in Steel on Transient Evolution of Inclusions During Calcium Treatment. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2018</b> , 49, 610-626	2.5	23
39	Deformability of Oxide Inclusions in Tire Cord Steels. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2018</b> , 49, 803-811	2.5	29
38	Modeling reoxidation behavior of Al-Mn-containing steels by CaO-Al <sub>2</sub> O <sub>3</sub> -MgO-SiO <sub>2</sub> slag. <i>Journal of Iron and Steel Research International</i> , <b>2018</b> , 25, 146-156	1.2	17
37	Modelling inclusion evolution in Al-Mn-killed steels during ladle mixing process. <i>Ironmaking and Steelmaking</i> , <b>2018</b> , 45, 585-591	1.3	10
36	Formation Mechanism of Complex Oxide Inclusions in 55SiCr Spring Steels. <i>Steel Research International</i> , <b>2018</b> , 89, 1700277	1.6	5
35	Numerical Simulation on the Oxidation of Lanthanum During the Electroslag Remelting Process. <i>Jom</i> , <b>2018</b> , 70, 2157-2168	2.1	8
34	Influence of Casting Parameters on Hooks and Entrapped Inclusions at the Subsurface of Continuous Casting Slabs. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2018</b> , 49, 5469-5477	2.3	11
33	Effects of Interphase Forces on Fluid Flow in Gas-Stirred Steel Ladles Using the Eulerian-Lagrangian Multiphase Approach. <i>Jom</i> , <b>2018</b> , 70, 2128-2138	2.1	18
32	Entrapment of Inclusions by Solidified Hooks at the Subsurface of Ultra-Low-Carbon Steel Slab. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2018</b> , 49, 3186-3199	2.5	12
31	Kinetic study on compositional variations of inclusions, steel and slag during refining process. <i>Metallurgical Research and Technology</i> , <b>2018</b> , 115, 415	0.9	13
30	Large Eddy Simulation on the Fluid Flow, Solidification and Entrapment of Inclusions in the Steel Along the Full Continuous Casting Slab Strand. <i>Jom</i> , <b>2018</b> , 70, 2968-2979	2.1	21
29	Modeling on the Fluid Flow and Mixing Phenomena in a RH Steel Degasser with Oval Down-Leg Snorkel. <i>Steel Research International</i> , <b>2018</b> , 89, 1800048	1.6	12
28	Kinetic Modeling for the Dissolution of MgO Lining Refractory in Al-Killed Steels. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2017</b> , 48, 2195-2206	2.5	20
27	A Reaction Model for Prediction of Inclusion Evolution During Reoxidation of Ca-Treated Al-Killed Steels in Tundish. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2017</b> , 48, 1433-1438	2.5	23
26	Wettability between Fe-Al alloy and sintered MgO. <i>Ceramics International</i> , <b>2017</b> , 43, 7674-7681	5.1	16
25	Thermodynamic Model for Prediction of Slag-Steel-Inclusion Reactions of 304 Stainless Steels. <i>ISIJ International</i> , <b>2017</b> , 57, 68-75	1.7	23

24	Transformation of Oxide Inclusions in Type 304 Stainless Steels during Heat Treatment. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2017</b> , 48, 2281-2292	2.5	58
23	Effect of slag basicity adjusting on inclusions in tire cord steels during ladle furnace refining process. <i>Metallurgical Research and Technology</i> , <b>2017</b> , 114, 602	0.9	11
22	Modeling transient evolution of inclusion in Si-Mn-killed steels during the ladle mixing process. <i>Metallurgical Research and Technology</i> , <b>2017</b> , 114, 308	0.9	6
21	Yield of Y, La, Ce in high temperature alloy during electroslag remelting process. <i>Metallurgical Research and Technology</i> , <b>2016</b> , 113, 405	0.9	2
20	Effect of Slag Composition on Inclusions in Si-Deoxidized 18Cr-8Ni Stainless Steels. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2016</b> , 47, 1024-1034	2.5	43
19	Transient Behavior of Inclusions during Reoxidation of Si-killed Stainless Steels in Continuous Casting Tundish. <i>ISIJ International</i> , <b>2016</b> , 56, 584-593	1.7	25
18	Stability Diagram of Mg-Al-O System Inclusions in Molten Steel. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2015</b> , 46, 1809-1825	2.5	44
17	Formation and Thermodynamics of Mg-Al-Ti-O Complex Inclusions in Mg-Al-Ti-Deoxidized Steel. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2014</b> , 45, 2057-2071	2.5	41
16	Detection of Non-metallic Inclusions in Steel Continuous Casting Billets. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , <b>2014</b> , 45, 1291-1303	2.5	58
15	Transient Evolution of Inclusions during Calcium Modification in Linepipe Steels. <i>ISIJ International</i> , <b>2014</b> , 54, 2772-2779	1.7	62
14	Nucleation, Growth, and Aggregation of Alumina Inclusions in Steel. <i>Jom</i> , <b>2013</b> , 65, 1173-1180	2.1	22
13	Characteristics of Inclusions in Low Carbon Al-Killed Steel during Ladle Furnace Refining and Calcium Treatment. <i>ISIJ International</i> , <b>2013</b> , 53, 1401-1410	1.7	124
12	Wettability Between Si-Mn-Killed Steel and MgO-Based Refractory Containing SiO <sub>2</sub> Impurities. <i>Steel Research International</i> , 2100703	1.6	
11	Transient Evolution of Non-metallic Inclusions in a Si-Mn-killed Stainless Steel with Cerium Addition. <i>Steel Research International</i> ,	1.6	2
10	Prediction of Calcium Yield During Calcium Treatment Process Performed in Steelmaking Using Neural Network. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 1	2.5	3
9	Transformation of inclusions in Al-killed steels with different calcium contents during the heat treatment. <i>Ironmaking and Steelmaking</i> , 1-12	1.3	
8	Effect of Sulfur Content on Evolution of Nonmetallic Inclusions in Low Sulfur Al-Killed Steels during Heat Treatment. <i>Steel Research International</i> , 2100526	1.6	0
7	Effect of nozzle type on fluid flow, solidification, and solute transport in mold with mold electromagnetic stirring. <i>Journal of Iron and Steel Research International</i> , 1	1.2	3

6	Simulation of Solidification Structure During Vacuum Arc Remelting Using Cellular Automaton Finite Element Method. <i>Steel Research International</i> ,2100408	1.6	1
5	Effect of Casting Parameters on the Flow Pattern in a Steel Continuous Casting Slab Mold: Numerical Simulation and Industrial Trials. <i>Steel Research International</i> ,2100350	1.6	0
4	Large Eddy Simulation on Four-Phase Flow and Slag Entrainment in the Slab Continuous Casting Mold. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> ,1	2.5	0
3	Kinetic modeling on hot metal desulfurization with mechanical stirring. <i>Journal of Iron and Steel Research International</i> ,1	1.2	
2	Inclusion Evolution in Al-Killed Ca-Treated Steels at Heat Treatment Temperature In Situ Observed Using Confocal Scanning Laser Microscope. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> ,1	2.5	0
1	Effect of initial aluminium-oxygen concentration product on alumina-based inclusions in high carbon Al-killed steels during the ladle refining process. <i>Ironmaking and Steelmaking</i> ,1-8	1.3	